

106. (Newly Added) The computer readable medium of claim 97, further having a series of instructions for hypothesis generation for generating the at least one hypotheses.

107. (Newly Added) The computer readable medium of claim 97, wherein the series of instructions for receiving at least one signal of interest receives a parameter of the signal of interest.

In the Drawings

Please amend the Drawings by making the modifications as indicated in red permanent ink on the separate accompanying sheets. Applicants respectfully submit the proposed drawing corrections in red permanent ink in accordance with 37 C.F.R. § 1.121(a)(3)(ii) and MPEP § 608.02(p). Also, Applicants also submit formal copies of the drawings for ultimate publication. Applicants respectfully submit that no new matter has been entered by the amendments to the drawings.

REMARKS

Present Status of Patent Application

Upon entry of the amendments in this response, claims 1-21 and 23-107 remain pending in the present application. More specifically, claim 22 is canceled without prejudice, waiver, or disclaimer, and claims 23-107 are added. These amendments and additions are specifically explained later. Applicants also submit a substitute specification in accordance with 37 C.F.R. § 1.125 and MPEP § 608.01(q), and have corrected minor typographical errors in the drawings. It is believed that the foregoing amendments and additions add no new matter to the present application.

Revisions to Reference Numbers and Order of Drawings

To facilitate the readability of the specification, Applicants have amended the specification and the drawings by renumbering most of the reference numbers and by reordering the drawings (FIGs. 9 and 10). Because the amendments are numerous, a substitute specification is submitted

herewith. The drawings have been reordered according to the following table.

Table 1: Reordering of the Drawings

Original Specification <u>Drawing Number</u>	Substitute Specification <u>Drawing Number</u>
FIG. 10	FIG. 9
FIG. 9	FIG. 10

Accordingly, the specification section entitled, "BRIEF DESCRIPTION OF THE DRAWINGS" has been revised to reflect the reordering of the drawings.

Furthermore, Applicants have added section headings to the specification section entitled, "DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS" to facilitate easier reading of the specification.

A description of step 136 (original drawing reference number 108 of FIG. 7) and step 138 (original drawing reference number 107 of FIG. 7) is added to the specification, as shown at page 22 of the marked-up copy of the specification. Because the added description to the specification merely describes matter originally disclosed in FIG. 7, the Applicants respectfully submit that the added description of steps 136 and 138 does not constitute new matter.

A description of FIG. 9 (originally drawing FIG. 10 in the original application) is added to the specification, as shown at page 24 of the marked-up copy of the specification. Included in a description that includes step 360 (original drawing reference number 700 of original FIG. 10), step 362 (original drawing reference number 701 of original FIG. 10), step 364 (original drawing reference number 702 of original FIG. 10), step 366 (original drawing reference number 703 of original FIG. 10), step 368 (original drawing reference number 704 of original FIG. 10) and step 370 (original drawing reference number 705 of original FIG. 10). Because the added description to the specification merely describes matter originally disclosed in original FIG. 10 (now amended to be FIG. 9), the Applicants respectfully submit that the added description of FIG. 9 consisting of steps 360-370 does not constitute new matter.

Clarification to the specification is made for FIG. 13B, as shown at pages 47-48 of the marked-up copy of the specification. Because the above-described revisions to the specification

clarify the discussion of FIG. 13B, the Applicants respectfully submit that the revision does not constitute new matter.

Other amendments to the specification correct minor typographical errors or clarify the specification for the convenience of the reader. Also, drawing numbers [e.g.: "RAM 413 (FIG. 10)" at page 39 of the marked-up substitute specification] have been added throughout the specification to help the reader locate the drawing to which a particular reference number applies. The Applicants respectfully submit that these revision do not constitute new matter.

Addition on New Claims

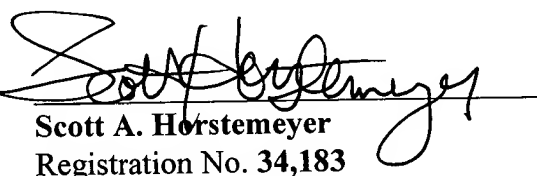
Claims 23-107 have been newly added to further define and/or clarify the scope of the invention.

CONCLUSION

It is believed that the foregoing amendments add no new matter to the present application. Accordingly, Applicants respectfully request that the present amendment and substitute specification be entered under 37 C.F.R. §1.312.

Respectfully Submitted,

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